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usually three observed. Some grains, like many kinds of mint pollen, are flat, that is, somewhat flax-seed shaped. In *Monarda fistulosa*, for example, the grains are 55–56 $\mu \times$ 64–67 μ when viewed flatwise, and each grain is traversed by three folds, making the grain resemble a miniature muskmelon. When water is added the grain changes its shape with surprising rapidity, the longer diameter becomes the shorter and the shorter the longer, with little variation in the original figures. Dry pollen has the outer coat uniform, while in the wet grains there may be broad belts or lines of a different exterior. The pores are not usually so evident in the dry pollen as when they are wet. It is more difficult to get a satisfactory measurement of a dry grain, as it may be partly collapsed or the light so broken that no distinct outline is seen.

It seems evident that the full and perfect measurement of a pollen grain requires that it be taken twice; once when dry, that is, in the condition when ready for passage from dehisced anther to stigma and again when fully swollen by the imbibition of water, and both figures should be given with the conditions for each.

Rutgers College. BYRON D. HALSTED.

Botanical Notes.

Notelets.—Last summer I noticed *Tragopogon porrifolius* established at West Point, N. Y. *Hieracium aurantiacum*, known now some ten years in the vicinity of Providence, is spreading slowly in this vicinity, and I have recently learned of its appearance at Lebanon, N. Y. Mr. Bennett tells me that *Humulus Japonicus* threatens to be a bad weed hereabouts. *Forsythia suspensa* has flowered here, out of doors all winter.

On Feb. 26th I found a clump of *Houstonia cœrulea* in full flower. This is my earliest recorded date for Providence in 26 years. *Acer dasycarpum* had then been in bloom some days.

PROVIDENCE, R. I. W. W. BAILEY.

Solanum rostratum was brought to me here last fall gathered near the D. L. & W. R. R. tracks in the village. *Blephilia ciliata* has been found by one of my students in a wild place at Binghamton.

WAVERLY, N. Y. C. F. MILLSPAUGH.

I have read the note on two-leaved *Pinus rigida* in the March BULLETIN with much interest. Between Sergeantsville and Stockton, Hunterdon Co., N. J., are several small trees of *P. rigida* having but two leaves in a fascicle.

WASHBURN, MINN. R. E. SCHUH.

The proposed New York Botanical Garden is briefly referred to in No. 57 of "Garden and Forest," where an account of the old Hosack Garden may also be found.

Reviews of Foreign Literature.

The Flora of West Yorkshire, with a sketch of the Climatology and Lithology in connection therewith. By Frederic Arnold Lees. London: Lovell, Reeve & Co., 1888.

The object of this work as stated in the "Foreword," is:—(1) to sketch the climate of the West Riding of York and show the limits imposed by its various factors upon those *floral* integers that make up the sum of its vegetation; (2) to connect the facts concerning soils and rocks in respect to their behavior under disintegration, and indicate the influence exerted by their conditions upon horizontal species-distribution; and (3) to furnish botanical collectors or students with a *Flora*—a list of the species found within the Riding, that shall be not merely a guide to the localities where they grow, but a history (with dates) so far as the area is concerned, of each one as well.

This object appears to be very fully attained in this thick octavo of 843 pages. It contains a map of the West Riding, 9 inches by 7, colored to represent the broad features of lithology as affecting plant distribution, and to show the natural river-basin areas. Then follow 60 pages devoted to the climatology, and 20 pages to the lithology. There are 13 pages of the bibliography of West Yorkshire Botany, between the years 1548 and 1885, with an additional three pages in the appendix extending the dates to 1887. Under this head 209 titles are given, embracing works including references to this region by William Turner, John Gerarde, Parkinson, Ray, Dillen, Curtis, Withering, Sowerby, Evelyn, Henfrey, Baker and others.